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*of Faith of a Man of Science*, by Dr. Ernst Haeckel; *Life at the Zoo*, by C. J. Cornish; a new edition of S. Thompson's *Electricity and Magnetism and Mental Development in the Child and in the Race*, by J. Mark Baldwin.

#### SOCIETIES AND ACADEMIES.

##### THE NEW YORK ACADEMY OF SCIENCES.

J. A. MATTHEWS, *Notes on Carborundum*.

BASHFORD DEAN, *On the collections of Fossil Fishes at Berea, New London and Delaware, Ohio*.

L. McL. LUQUER, *The Relative effects of Frost and Sulphate of Soda Efflorescence as shown by Tests of Building Stone*.

J. F. KEMP, *Secretary*.

##### THE TORREY BOTANICAL CLUB.

B. D. HALSTED, *Abnormalities in Plants Due to Fungus Parasites*.

HENRY H. RUSBY, *Secretary*.

##### AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.

LUDWIG GUTMANN, *On the Production of Rotary Magnetic Fields by a Single Alternating Current*.

In the absence of the author, the paper will be presented in abstract by Dr. M. I. Pupin.

A meeting of Western members will be held the same evening at Chicago, where the paper will be read by the author.

RALPH W. POPE, *Secretary*.

#### SCIENTIFIC JOURNALS.

##### THE AMERICAN NATURALIST.

*Quaternary Time Divisible in Three Periods, the Lafayette, Glacial, and Recent*: WARREN UPHAM.

*The Homologies of the Uredinea (The Rusts)*: CHARLES E. BESSEY.

*On the Evolution of the Art of Working in Stone; a preliminary paper by J. D. McGuire*: CHARLES H. READ.

*Zoölogy in the High School*: CLARENCE M. WEED.

*Editorials; Recent Books and Pamphlets; Recent Literature*.

*General Notes*:—*Petrography; Geology and Paleontology; Botany; Zoölogy; Entomology; Archeology and Ethnology*.

*Proceedings of Scientific Societies*.

##### THE PHYSICAL REVIEW.

*Frontispiece: portrait of Professor von Helmholtz*.

*Studies of the Lime Light*: EDWARD L. NICHOLS and MARY L. CREHORE.

*A Study of the Residual Charges of Condensers and their Dependence upon Temperature*: FREDERICK BEDELL and CARL KINSLEY.

*A General Theory of the Glow-Lamp II.*: H. S. WEBER.

*Minor Contributions; Notes; New Books*.

##### BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

*On the Group of Holoedric Transformation of a Given Group into Itself*: E. HASTINGS MOORE.

*On the Non-Primitive Substitution Groups of Degree Ten*: G. A. MILLER.

*Briefer Notices; Notes; New Publications*.

##### NEW BOOKS.

*Popular Lectures and Addresses*. Vol. II., *Geology and General Physics*. SIR W. THOMPSON. London and New York. Macmillan & Co. 1894. Pp. x., 599.

*Light. Elementary text-book; theoretical and practical*. R. T. GLAZEBROOK. Cambridge University Press. New York. Macmillan & Co. 1894. Pp. vii., 213. \$1.00.

*Manual of Physico-Chemical Measurements*. By WILHELM OSTWALD. Trans. by JAMES WALKER. London and New York. Macmillan & Co. 1894. Pp. xii., 255. \$2.25.

*Electricity One Hundred Years Ago and To-day*. EDWIN J. HOUSTON. New York. W. J. Johnson & Co. 1894. Pp. 199. \$1.00.